PASS 3 Calibration Certification

Customer Name				Contract/P.O. No.		
ABC Coke					Tag No.	
					LOCB-CV	
Light Oil Cor	ILIOI DOX	Model No.			Serial No.	
Fisher		n/a			n/a	
Instrument			Х			
Туре	Transmitter	Indicator	Controller	Recorder	Gauge	Thermometer
		Plus	Minus	☑ % of Span		
Accuracy		2.0	2.0	☐ % of Reading	9	
		Input Sigr	nal Range	and Units		
Lo Range Value	Hi Range Value	Units		Characteristic	Special	
4	20	MA	.DC	Linear	Control Valv	re
		Dutput Sig	nal Range	e and Units		
Lo Range Value	Hi Range Value	Units		Characteristic	Special	
0	100	Per	cent	Linear		
Instrument Condition as Found						
Calibration		Expected	Actual Output as	% Error As	Actual Output	
Point	Actual Input	Output	Found	Found	as Left	% Error As Left
0%	4	0	0.0	0.000	0.0	0.000
25%	8	25	20.0	-5.000	25.0	0.000
50%	12	50	45.0	-5.000	50.0	0.000
75%	16	75	70.0	-5.000	75.0	0.000
100%	20	100	95.0	-5.000	100.0	0.000
		*;(Comments	5		
-						
		O = 1:15 == 4! =				
		Calibratic	n Equipm	ient Usea		
Calibrator	Descr	iption	Мо	odel No.	Instrument ID	NIST Cert. No.
Input Device	Fluke Calib	rator	725		On File	On File
Output Device	Local Displ	ay				
			Approvals)	·	
Hours	Date Work Perfo		Accepted By		Date Signed	
1.0 PASS Signature	10/14		Customer C'em			
JOHN HO	ORTON		Customer Signat	ture		



Customer Name					Contract/P.O. No.	
ABC Coke						
Application/Service					Tag No.	
Light Oil Cor	ntrol Box	Model No.			LOCB-IP Serial No.	
Dwyer		2342			703	
	V	2042			700	
Instrument	Х					
Туре	Transmitter	Indicator	Controller	Recorder	Gauge	Thermometer
		Plus	Minus	☑ % of Span		
Accuracy		2.0	2.0	☐ % of Reading]	
		Input Sigr	nal Range	and Units		
Lo Range Value	Hi Range Value	Units		Characteristic	Special	
4	20	MA	DC	Linear		
			nal Range	e and Units		
Lo Range Value	Hi Range Value	Units		Characteristic	Special	
3	15	PS	SIG	Linear		
	I	nstrument	Condition	n as Found		
			Actual			
Calibration		Expected	Output as	% Error As	Actual Output	0/ 5
Point	Actual Input	Output	Found	Found	as Left	% Error As Left
0%	4	3	1.190	-15.083	3.000	0.000
25%	8	6	3.940	-17.167	6.000	0.000
50%	12	9	6.950	-17.083	9.000	0.000
75%	16	12	9.930	-17.250	12.000	0.000
100%	20	15	12.830	-18.083	15.000	0.000
		(Comments	3		
		Calibratio	n Equipm	ent Used		_
		Calibratic	Lquipir	ient Osea		
Calibrator	Desci	ription	Mo	odel No.	Instrument ID	NIST Cert. No.
Input Device		·	725		On File	On File
						On File
Output Device	Fluke Call		725		On File	On File
Hours	Date Work Perfo		Approvals Accepted By	5	Date Signed	
1.0		/2010				
PASS 3 Signature	10/14	12010	Customer Signa	ture		
JOHNHO	ORTON					
JUJIJY JIC	71(10)1					

PASS 3 Calibration Certification

Customer Name					Contract/P.O. No.	
ABC Coke	Plant					
Application/Service					Tag No.	
Light Oil Cor	ntrol Box				LOCB-MAG	
Manufactuer		Model No.			Serial No.	
Magnehelic		N/A			N/A	
Instrument		Х				
Туре	Transmitter	Indicator	Controller	Recorder	Gauge	Thermometer
		Plus	Minus	☑ % of Span		
Accuracy		2.0	2.0	☐ % of Reading	9	
		Input Sigr	nal Range	and Units		
Lo Range Value	Hi Range Value			Characteristic	Special	
10	50	INF	120	Linear		
		Output Sig	nal Range	e and Units		
Lo Range Value	Hi Range Value			Characteristic	Special	
10	50	INF	120	Linear		
		nstrument	Condition	n as Found		
			Actual			
Calibration Point	Actual Input	Expected Output	Output as Found	% Error As Found	Actual Output as Left	% Error As Left
0%	10	10	10	10.000	10	0.000
25%	20	20	20	0.000	20	0.000
50%	30	30	29	-3.750	29	
						-2.500
75%	40	40	39	-2.500	39	-2.500
100%	50	50	49	-2.500	49	-2.500
			Comments	S		
	×	Calibration	n Equipm	ent Used		
Calibrator	Desci	rintion	NAC	odel No.	Instrument ID	NIST Cert. No.
Input Device	Fluke Calib	·	725	dei No.	On File	On File
		natoi	120		Offfile	On the
Output Device	Local		Λ 10 10 10 10 10 10 10 10 10 10 10 10 10			
Hours	Date Work Perfo		Approvals Accepted By		Date Signed	
1.0		/2010			Sate Signed	
PASS 3 Signature Customer Signature				ture		
JOHNHO	ORTON					



ABC Coke	Plant				CONTRACT TO THE	
Application/Service					Tag No.	
Light Oil Cor	ntrol Box			LOCB-PT		
Manufactuer		Model No.			Serial No.	
Rosemount		3051CD1A	22A1AB4K	5	1187845	
Instrument	Х					
Туре	Transmitter	Indicator	Controller	Recorder	Gauge	Thermometer
		Plus	Minus	☑ % of Span		
Accuracy		2.0	2.0			
			nal Range	and Units		
Lo Range Value	Hi Range Value	Units		Characteristic	Special	
-2	14	INF	120	Linear		
			nal Range	e and Units		
Lo Range Value	Hi Range Value			Characteristic	Special	
4	20		DC	Linear		
Instrument Condition as Found						
Calibration		Evposted	Actual Output as	% Error As	Actual Output	
Point	Actual Input	Expected Output	Found	Found	as Left	% Error As Left
0%	-2	4	3.897	-0.644	3.990	-0.062
25%	2	8	7.952	-0.300	8.000	0.000
50%	6	12	11.947	-0.331	12.010	0.062
75%	10	16	15.964	-0.225	16.110	0.687
100%	14	20	19.973	-0.169	20.003	0.019
			Comments	3		
Transmitter r	needs to be r	elocated abo	ove tap.			
		Calibration	n Equipm	ent Used		
Calibrator		ription		odel No.	Instrument ID	NIST Cert. No.
<u> </u>	HAND PUN		DWYER			
Output Device	Fluke Calib		725		On File	On File
	D. I. W. I. D. J.		Approvals	5	In	
Hours 1.0	Date Work Perfo	/2010	Accepted By		Date Signed	
PASS 3 Signature	10/14	,_010	Customer Signa	ture		
JOHNHO	ORTON		_			
			L			



ABC Coke	Dlant				Gontract/P.O. No.	
Application/Service					Tag No.	
Light Oil Cor					LOCB-YC	
Manufactuer	KI CI DOX	Model No.			Serial No.	
Yokogawa		UT-550			TIC10628-3	03
Instrument		Х				
Туре	Transmitter	Indicator	Controller	Recorder	Gauge	Thermometer
		Plus	Minus	☑ % of Span		
Accuracy		2.0	2.0	☐ % of Reading	3	
		Input Sigr	al Range	and Units		
Lo Range Value	Hi Range Value	Units		Characteristic	Special	
4	20	MA	DC	Linear		
Output Signal Range and Units						
Lo Range Value	Hi Range Value	Units		Characteristic	Special	
-2	14	INF	120	Linear		
		nstrument		n as Found		
Calibration		Evposted	Actual	% Error As	Actual Output	
Calibration Point	Actual Input	Expected Output	Output as Found	% Enor As Found	Actual Output as Left	% Error As Left
0%	4	-2	-1.99	0.063	-2.00	0.000
25%	8	2	2.01	0.062	2.00	0.000
50%	12	6	6.02	0.002	6.00	0.000
75%	16	10	10.02	0.125	10.00	0.000
100%	20	14	14.02	0.125	14.00	0.000
10076	20		Comments		14.00	0.000
			3011111101110			
		Calibratio	n Equipm	ent Used		
Calibrator	Descr	iption	Мс	del No.	Instrument ID	NIST Cert. No.
Input Device	Fluke Calib	rator	725		On File	On File
Output Device	Local Displ	ay				
			Approvals	i		
	Date Work Perfo		Accepted By		Date Signed	
1.0	10/14	/2010	Overhams - Ole			
PASS 3 Signature	οστοικ		Customer Signat	ture		
JOHNHO	DACTON					



Customer Name					Contract/P.O. No.	
ABC Coke						
Application/Service					Tag No.	
Platform Co	ntrol Box	Model No.			PCB-CV Serial No.	
PMV		P-1200			158910	
Instrument	Х	1 - 1200			130310	
		I 41 4	Otll	Danada	0	Th
Туре	Transmitter	Indicator	Controller	Recorder	Gauge	Thermometer
A course.		Plus	Minus	│ ☑ % of Span │ ፴ % of Reading	,	
Accuracy		2.0	2.0		9	
Lo Range Value	Hi Range Value		ıaı Kange	and Units Characteristic	Special	
-	20		\DC	Linear	Special	
4		L				
Lo Range Value	Hi Range Value		nai Kange	e and Units Characteristic	Special	
0	100		cent	Linear	Ореслаг	
-				n as Found		
	[i isti ui ile ili	Actual	Tas Found	1	
Calibration		Expected	Output as	% Error As	Actual Output	
Point	Actual Input	Output	Found	Found	as Left	% Error As Left
0%	4.00	0.00				
25%	8.00	25.00				
50%	12.00	50.00				
75%	16.00	75.00				
100%	20.00	100.00				
		(Comments	S		
Note: contro	l valve is sp	an 0 to 20 j	percent			
needs new c	ontroller on	control val	ve			
		Calibratio	n Equipm	ent Used		
Calibrator	Desci	·		odel No.	Instrument ID	NIST Cert. No.
Input Device	Fluke Calib	rator	725	700PD5	ON FILE	ON FILE
Output Device	LOCAL					
			Approvals			
Hours	Date Work Perfo		Accepted By		Date Signed	
1.0	10/14	/2010	Customer Circura			
PASS 3 Signature	<i>המרוחו</i> ר		Customer Signat	luie		
JUJEN JIC	JACA OUT					



Customer Name				Contract/P.O. No.		
ABC Coke					Tag No.	
Application/Service					1	
Platform Cor	ntrol Box	Model No.			PCB-IP Serial No.	-
Brandt		5131			M513000F0	16280
Instrument	Х					
Туре	Transmitter	Indicator	Controller	Recorder	Gauge	Thermometer
		Plus	Minus	☑ % of Span		
Accuracy		2.0	2.0	☐% of Reading	1	
		Input Sigr	al Range	and Units		
Lo Range Value	Hi Range Value			Characteristic	Special	
4	20	MA	DC	Linear		
		Output Sig	nal Range	and Units		
Lo Range Value	Hi Range Value	Units		Characteristic	Special	
3	15	PS	SIG	Linear		
Instrument Condition as Found						
Calibration		Expected	Actual Output as	% Error As	Actual Output	
Point	Actual Input	Output	Found	Found	as Left	% Error As Left
0%	4.00	3.00	4.790	14.917	4.790	14.917
25%	8.00	6.00	7.130	9.417	7.130	9.417
50%	12.00	9.00	10.156	9.633	10.156	9.633
75%	16.00	12.00	14.144	17.867	14.144	17.867
100%	20.00	15.00	16.169	9.742	16.169	9.742
			Comments	3		
IP IS BAD I	NEED NEW	/ DEVICE				
						,
		Calibration	n Equipm	ent Used		
Calibrator	Desci	ription	Mo	odel No.	Instrument ID	NIST Cert. No.
Input Device	Fluke Calib	rator	725	700PD5	ON FILE	ON FILE
Output Device	Fluke Calib	rator	725		ON FILE	ON FILE
	,,		Approvals	S		
Hours Date Work Performed		Accepted By		Date Signed		
1.0	10/14	/2010				
PASS 3 Signature	and'out		Customer Signa	ture		
JOHNH	JKTO;N					



Customer Name				Contract/P.O. No.		
ABC Coke					Tag No.	
Platform Col					PCB-YC2	
Manufactuer	TILIOI BOX	Model No.			Serial No.	
Yokogawa		UT-550			N/A	
Instrument		Х				
Туре	Transmitter	Indicator	Controller	Recorder	Gauge	Thermometer
		Plus	Minus	☑ % of Span		
Accuracy		2.0	2.0	່ □% of Reading	9	
			nal Range	and Units		_
Lo Range Value	Hi Range Value			Characteristic	Special	
1	5	V	OC	Linear		
	C	Dutput Sig	nal Range	e and Units		
Lo Range Value	Hi Range Value	Units		Characteristic	Special	
-2	14	INF	120	Linear		
Instrument Condition as Found						
0-61		C a ata d	Actual	0/ 5 4	A = 4 = 1	
Calibration Point	Actual Input	Expected Output	Output as Found	% Error As Found	Actual Output as Left	% Error As Left
0%	1.00	-2.00	-2.000	0.000	-2.000	0.000
25%	2.00	2.00	2.500	3.125	2.500	3.125
50%	3.00	6.00	6.800	5.000	6.800	5.000
75%	4.00	10.00	10.500	3.125	10.500	3.125
100%	5.00	14.00	15.000	6.250	15.000	6.250
		(Comments	S		
CONTROLL	ER WILL N	T TRACK II	NPUT,			
		Calibration	n Equipm	ent Used		
Calibrator	Descr	iption	Mo	del No.	Instrument ID	NIST Cert. No.
Input Device	Fluke Calib	<u> </u>	725		ON FILE	ON FILE
Output Device					0	0117.122
			Approvals			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Hours	Date Work Perfo		Accepted By		Date Signed	
1.0	10/14					
PASS 3 Signature	20000		Customer Signat	ure		
JOHNHO	JKTON					



A D C Colso	Dlast				Contract/P.O. No.		
ABC Coke					Tag No.		
Process Wa		r		PWD-CV			
Manufactuer	ter Decante	Model No.			Serial No.		
Fisher		1052			15363423		
Instrument			Х				
Туре	Transmitter	Indicator	Controller	Recorder	Gauge	Thermometer	
		Plus	Minus	☑ % of Span			
Accuracy		2.0	2.0	☐ % of Reading	9		
		Input Sigr	nal Range	and Units			
Lo Range Value	Hi Range Value			Characteristic	Special		
4	20	MA	DC.	Linear			
		Output Sig	nal Range	and Units			
Lo Range Value	Hi Range Value	Units		Characteristic	Special		
0	100	Per	cent	Linear			
Instrument Condition as Found							
0 111 11			Actual	0/ = 4			
Calibration Point	Actual Input	Expected Output	Output as Found	% Error As Found	Actual Output as Left	% Error As Left	
0%	4.00	0.00	0	0.000	0	0.000	
				0.000			
25%	8.00	25.00	25		25	0.000	
50%	12.00	50.00	50	0.000	50	0.000	
75%	16.00	75.00	75	0.000	75	0.000	
100%	20.00	100.00	100	0.000	100	0.000	
			Comment	5			
		Calibratio	n Equipm	ent Used			
Calibrator	Desci	ription	Mo	odel No.	Instrument ID	NIST Cert. No.	
Input Device	Fluke Calib	·	725		8218055	1000195484	
Output Device			720		0210000	1000100404	
Output Device	Local Dispi		L Approvals				
Hours	Date Work Perfo		Approvats Accepted By	,	Date Signed		
1.0	10/14	/2010					
PASS 3 Signature			Customer Signa	ture	, , , , , , , , , , , , , , , , , , , ,		
JOHNHO	ORTON						



ABC Coke	Plant				Contractifico. No.	
Application/Service					Tag No.	
Process Wa		er		PWD-MAG		
Manufactuer		Model No.			Serial No.	
Magnehelic		n/a			n/a	
Instrument			Х			
Туре	Transmitter	Indicator	Controller	Recorder	Gauge	Thermometer
		Plus	Minus	☑ % of Span		
Accuracy		2.0	2.0	☐ % of Reading	9	
			nal Range	and Units		
Lo Range Value	Hi Range Value	Units		Characteristic	Special	
10	50	INF	120	Linear		
		Dutput Sig	nal Range	e and Units		
Lo Range Value	Hi Range Value			Characteristic	Special	
10	50	INF	120	Linear		
		nstrument		n as Found		
Calibration		Evented	Actual	0/ Error Ao	A atrical Contract	
Calibration Point	Actual Input	Expected Output	Output as Found	% Error As Found	Actual Output as Left	% Error As Left
0%	10	10	15	12.500	10	0.000
25%	20	20	24	10.000	24	10.000
50%	30	30	35	12.500	35	12.500
75%	40	40	45	12.500	45	12.500
100%	50	50	60	25.000	60	25.000
		(Comments	3	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
MAGNEH	ELIC NE	EDS TO E	BE REPLA	ACED.		
			-			
		Calibratio	n Equipm	ent Used		
0 111 1						
Calibrator	Descr			odel No.	Instrument ID	NIST Cert. No.
Input Device	Fluke Calib		725		8218055	1000195484
Output Device	Local Displ					
			Approvals	<u> </u>	T= : =:	
Hours 1.0	Date Work Perfo	/2010	Accepted By		Date Signed	
PASS 3 Signature	10/14	12010	Customer Signat	ture		
JOHNHO	ORTON		3.7			



Customer Name					Contract/P.O. No.	
ABC Coke						
Application/Service	9				Tag No.	
Process Wa	ter Decante				PWD-PT	
Manufactuer		Model No.			Serial No.	
Rosemount		3051 CD1/	422A1AB4k	< 5	703218	ρ
Instrument			Х			
Туре	Transmitter	Indicator	Controller	Recorder	Gauge	Thermometer
		Plus	Minus	☑ % of Span		
Accuracy		2.0	2.0	☐ % of Reading)	
		Input Sigr	al Range	and Units		
Lo Range Value	Hi Range Value			Characteristic	Special	
-2	14	INF	120	Linear		
		Dutput Sig	nal Range	and Units		
Lo Range Value	Hi Range Value			Characteristic	Special	
4	20	MA	DC	Linear		
		nstrument	Condition	n as Found	_	
			Actual			
Calibration		Expected	Output as	% Error As	Actual Output	
Point	Actual Input	Output	Found	Found	as Left	% Error As Left
0%	-2	4	4.021	0.131	4.021	0.131
25%	2	8	8.048	0.300	8.048	0.300
50%	6	12	12.056	0.350	12.056	0.350
75%	10	16	16.027	0.169	16.027	0.169
100%	14	20	20.035	0.219	20.035	0.219
		(Comments	3		
TRANSMI	TTER NE	EEDS TO	BE RE-LO	CATED AB	OVE TAP.	
		Calibratio	n Equipm	ent Used		
Calibrator	Descr	ription	Mo	odel No.	Instrument ID	NIST Cert. No.
Input Device	HAND PUN	ИP	DWYER			
Output Device	FLUKE ME	TER	725		on file	on file
			Approvals)		
Hours	Date Work Perfo		Accepted By		Date Signed	
1.0	10/14	/2010				
PASS 3 Signature	20000		Customer Signa	ture	-	
JOHNHO	KTON					



Customer Name					Contract/P.O. No.		
ABC Coke							
Application/Service					Tag No.		
Process War	ter Decante	r IModel No.			PWD-YC Serial No.		
		UT-550			T 5007RH18	20 720	
Yokogawa		01-550	Х		1 3007131116	30-730	
Instrument							
Туре	Transmitter	Indicator	Controller	Recorder	Gauge	Thermometer	
		Plus	Minus	☑ % of Span			
Accuracy		2.0	2.0	☐ % of Reading	1		
		Input Sigr	nal Range	and Units			
Lo Range Value	Hi Range Value	Units		Characteristic	Special		
4	20	MA	.DC	Linear			
		Output Sig	nal Range	e and Units			
Lo Range Value	Hi Range Value	Units		Characteristic	Special		
-2	14	INF	120	Linear			
Instrument Condition as Found							
=			Actual			=	
Calibration		Expected	Output as	% Error As	Actual Output	0/ 5 0-1-4	
Point	Actual Input	Output	Found	Found	as Left	% Error As Left	
0%	4	-2	-2.0	0.000	-2.0	0.000	
25%	8	2	2.0	0.000	2.0	0.000	
50%	12	6	6.0	0.000	6.0	0.000	
75%	16	10	10.0	0.000	10.0	0.000	
100%	20	14	13.9	-0.625	13.9	-0.625	
		(Comments	S			
CONTRO	LLER WI	LL NOT (CONTRO	LL VALVE.			
		Calibratic	n Equipm	ent Used		-	
		Calibratic	n Equipii	ieni Osed			
Calibrator	Desci	ription	l Mo	odel No.	Instrument ID	NIST Cert. No.	
Input Device	Fluke Calib	·	725		8218055	1000195484	
			720		0210000	1000100404	
Output Device	Local Dispi		Approvals				
Hours	Date Work Perfo		Approvals Accepted By)	Date Signed		
1.0	10/14/2010				Jako olgilod		
PASS 3 Signature	10/14	72010	Customer Signa	ture	L		
JOHNHO	ORTON						
5 - 5 - 5 - 5 - 5 - 5							



Customer Name					Contract/P.O. No.	
ABC Coke Plant						
Application/Service					Tag No.	
Tar Tank Co	ntrol Box				TTCB-CV	
Manufactuer		Model No.			Serial No.	
Fisher		n/a			n/a	
Instrument			Х			
Туре	Transmitter	Indicator	Controller	Recorder	Gauge	Thermometer
		Plus	Minus	☑ % of Span		
Accuracy		2.0	2.0	☐ % of Reading	3	
	_	Input Sigr	al Range	and Units		
Lo Range Value	Hi Range Value			Characteristic	Special	
4	20	MA	DC	Linear	Control Valv	е
		Output Sig	nal Range	and Units		
Lo Range Value	Hi Range Value	Units	= -	Characteristic	Special	
0	100	Per	cent	Linear		
)	nstrument	Condition	n as Found		
			Actual			
Calibration		Expected	Output as	% Error As	Actual Output	0/ =
Point	Actual Input	Output	Found	Found	as Left	% Error As Left
0%	4	0	0	0.000	0	0.000
25%	8	25	25	0.000	25	0.000
50%	12	50	50	0.000	50	0.000
75%	16	75	75	0.000	75	0.000
100%	20	100	100	0.000	100	0.000
			Comments	8		
		Calibratio	n Equipm	ent Used	,,,	
Calibrator	Desc	ription	Mo	odel No.	Instrument ID	NIST Cert. No.
Input Device	Fluke Calib	orator	725		On File	On File
Output Device	Local Displ	lay				
			Approvals	3		
Hours	Date Work Perfo	ormed	Accepted By		Date Signed	
1.0	10/14	/2010				
PASS 3 Signature	2000000		Customer Signa	ture		
JOHN HO	אלא אאנע אאנע					



Customer Name					Contract/P.O. No.	
ABC Coke Plant						
Application/Service)				Tag No.	
Tar Tank Co	ntrol Box				TTCB-IP	
Manufactuer		Model No.			Serial No.	
Brandt	p:	STD5131			M513000F-	16278
Instrument	Х					
Туре	Transmitter	Indicator	Controller	Recorder	Gauge	Thermometer
		Plus	Minus	☑ % of Span		
Accuracy		2.0	2.0	☐ % of Reading	1	
		Input Sigr	al Range	and Units		
Lo Range Value	Hi Range Value			Characteristic	Special	
4	20	MA	DC	Linear		
		Output Sig	nal Range	and Units	1.	
Lo Range Value	Hi Range Value			Characteristic	Special	
3	15	PS	SIG	Linear		
	ì	nstrument	Condition	n as Found		
		'	Actual			
Calibration		Expected	Output as	% Error As	Actual Output	0/ E A 1 5
Point	Actual Input	Output	Found	Found	as Left	% Error As Left
0%	4	3	1.996	-8.367	1.996	-8.367
25%	8	6	3.856	-17.867	3.856	-17.867
50%	12	9	7.870	-9.417	7.870	-9.417
75%	16	12	9.990	-16.750	9.990	-16.750
100%	20	15	13.990	-8.417	14.980	-0.167
		(Comments	5		
IP BAD NE	ED TO RE	PLACE				
		Calibratio	n Equipm	ent Used		
Calibrator	Desci		725	odel No.	Instrument ID	NIST Cert. No.
Input Device	Input Device Fluke Calibrator				On File	On File
Output Device Fluke Calibrator			725		On File	On File
			Approvals			
Hours	Date Work Perfo		Accepted By		Date Signed	
1.0	10/14	/2010	O			
PASS 3 Signature	ORTON		Customer Signa	ture		
5 -5 -5 1 5 - 6	-0-001					



Customer Name					Contract/P.O. No.	
ABC Coke	Plant					
Application/Service					Tag No.	
Tar Tank Co	ntrol Box				TTCB-MAG	
Manufactuer		Model No.			Serial No.	
Magnehelic		2000-oc			R98085RM	15
Instrument	Х					
Туре	Transmitter	Indicator	Controller	Recorder	Gauge	Thermometer
		Plus	Minus	☑ % of Span		
Accuracy		2.0	2.0	☐ % of Reading	9	
		Input Sigr	al Range	and Units		
Lo Range Value	Hi Range Value			Characteristic	Special	
0.10	0.50	PS	SIG	Linear		
		Output Sig	nal Range	and Units		
Lo Range Value	Hi Range Value	Units		Characteristic	Special	
0.10	0.50	PS	SIG	Linear		_
		nstrument	Condition	n as Found		
			Actual			
Calibration	A atual lamet	Expected	Output as	% Error As	Actual Output	0/ E A- L-ft
Point	Actual Input	Output	Found	Found	as Left	% Error As Left
0%	0.10	0.10	0.10	0.000	0.10	0.000
25%	0.20	0.20	0.15	-12.500	0.15	-12.500
50%	0.30	0.30	0.15	-37.500	0.15	-37.500
75%	0.40	0.40	0.15	-62.500	0.15	-62.500
100%	0.50	0.50	0.15	-87.500	0.15	-87.500
		(Comments	S		
BAD NEE	D TO REI	PLACE				
		Calibratio	n Equipm	ent Used		
On Uht	5-	.i.u. & i u.	3.4	dal Na	In admirer and ID	NIOT O L N
Calibrator	Descr			odel No.	Instrument ID	NIST Cert. No.
Input Device	Fluke Calib	rator	725		On File	On File
Output Device	Local					
			Approvals			
Hours	Date Work Perfo		Accepted By		Date Signed	
1.0 PASS 3 Signature	10/14	/2010	Customer Signal	turo		
JOHN HO	ገውፐር		Customer Signa	ure		
JUJIJY JIC	72(LUJY					



Customer Name	Dlant				Contract/P.O. No.	
ABC Coke					Tag No.	
Tar Tank Co			TTCB-MAG			
Manufactuer	THE OT BOX	Model No.			Serial No.	
Magnehelic		2000-ос			R98085RM	15
Instrument	Х					
Туре	Transmitter	Indicator	Controller	Recorder	Gauge	Thermometer
		Plus	Minus	☑ % of Span		
Accuracy		2.0	2.0	☐ % of Reading	3	
			nal Range	and Units		
Lo Range Value	Hi Range Value			Characteristic	Special	
0.10	0.50	PS	SIG	Linear		
			nal Range	e and Units		
Lo Range Value	Hi Range Value			Characteristic	Special	
0.10	0.50	PS	SIG	Linear		
		nstrument		n as Found	,	
Calibratian		Cymantad	Actual	0/ 5	A = 4= O4=4	
Calibration Point	Actual Input	Expected Output	Output as Found	% Error As Found	Actual Output as Left	% Error As Left
0%	0.10	0.10	0.10	0.000	0.10	0.000
25%	0.20	0.20	0.15	-12.500	0.15	-12.500
50%	0.30	0.30	0.15	-37.500	0.15	-37.500
75%	0.40	0.40	0.15	-62.500	0.15	-62.500
100%	0.50	0.50	0.15	-87.500	0.15	-87.500
		(Comments	5		
BAD NEE	D TO REI	PLACE				
		Calibration	n Equipm	ent Used	·	
Calibrator	Desci	ription	Мс	odel No.	Instrument ID	NIST Cert. No.
Input Device	Fluke Calib	rator	725		On File	On File
Output Device	Local					
			Approvals			
Hours	Date Work Perfo		Accepted By		Date Signed	
1.0	10/14	/2010	0 -1- 51			
PASS 3 Signature	ORTON		Customer Signat	ture		



Customer Name					Contract/P.O. No.	
ABC Coke Plant						
Application/Service			Tag No.			
Tar Tank Co	ntrol Box	Model No.			TTCB-PT Serial No.	
Ashcroft		1XLDP			81000122	
		IXLDI			01000122	
Instrument	X				-	
Туре	Transmitter	Indicator	Controller	Recorder	Gauge	Thermometer
		Plus	Minus	☑ % of Span		
Accuracy		2.0	2.0	☐ % of Reading	9	
		Input Sigr	nal Range	and Units		
Lo Range Value	Hi Range Value			Characteristic	Special	
-2	14	INI	120	Linear		
			nal Range	e and Units		
Lo Range Value	Hi Range Value	Units		Characteristic	Special	
-2	14	INI	120	Linear		
		nstrument	: Condition	n as Found		
			Actual			
Calibration	A =4::=1 l==::4	Expected	Output as	% Error As	Actual Output	0/ 5 4-1-#
Point	Actual Input	Output	Found	Found	as Left	% Error As Left
0%	-2	4				
25%	2	8				
50%	6	12				
75%	10	16				
100%	14	20				
		(Comments	3		
Will not calib	rate told Ch	narlie needs	to be repla	aced		
Reading 4 "	high					
		Calibratio	n Equipm	ent Used		
Calibrator	Descr	ription	Mo	odel No.	Instrument ID	NIST Cert. No.
Input Device	HAND PUN	·	DWYER			
Output Device			725		On File	On File
Output Device	I luke Callb		Approvals		Ontille	On rile
Hours	Date Work Perfo		Approvats Accepted By		Date Signed	
1.0		/2010				
PASS 3 Signature	<u> </u>		Customer Signat	ture		
5 00 10 1 5 1 0						

Osborn, Bill

From:

John Horton [jhorton24@aol.com]

Sent:

Tuesday, May 03, 2011 11:29 AM

To:

Osborn, Bill

Subject:

PASS 3 CAL. SHEETS

Attachments:

LOCB-CV.xls; LOCB-IP.xls; LOCB-MAG.xls; LOCB-PT.xls; LOCB-YC.xls; PCB-CV.xls; PCB-IP.xls; PCB-PT.xls; PCB-YC1.xls; PCB-YC2.xls; PWD-CV.xls; PWD-MAG.xls; PWD-PT.xls; PWD-YC.xls; TTCB-CV.xls; TTCB-IP.xls; TTCB-MAG.xls; TTCB-PT.xls; TTCB-YC.xls; WOCB-CV.xls; WOCB-IP.xls; WOCB-MAG.xls; WOCB-PT.xls; WOCB-YC.xls



Customer Name				Contract/P.O. No.		
ABC Coke Plant Application/Service					Tag No.	
Process Water Decanter				PWD-YC		
Manufactuer	ter Decante	Model No.			Serial No.	
Yokogawa		UT-550			T 5007RH1	88-738
Instrument			Х			
Туре	Transmitter	Indicator	Controller	Recorder	Gauge	Thermometer
		Plus	Minus	☑ % of Span		
Accuracy	~	2.0	2.0	☐ % of Reading	9	
		Input Sigr	nal Range	and Units		
Lo Range Value	Hi Range Value	Units		Characteristic	Special	
4	20	MA	DC	Linear		
		Dutput Sig	nal Range	e and Units		
Lo Range Value	Hi Range Value			Characteristic	Special	
-2	14	INF	120	Linear		
		nstrument		n as Found		
O = l'ile == l'i= =		5	Actual	0/ 5 4-	A - 4 1 O - 4 4	
Calibration Point	Actual Input	Expected Output	Output as Found	% Error As Found	Actual Output as Left	% Error As Left
0%	4	-2	-2.0	0.000	-2.0	0.000
25%	8	2	2.0	0.000	2.0	0.000
50%	12	6	6.0	0.000	6.0	0.000
75%	16	10	10.0	0.000	10.0	0.000
100%	20	14	13.9	-0.625	13.9	-0.625
			Comment	S		
CONTROL	TED WI	I I NOT (CONTRDO	TT MATME		
CONTRO	LLEK WI	LL NOT (LON I RO.	LL VALVE.		
		0 - 171 47	F .			
		Calibratio	n Equipm	ent Used		
Calibrator	Desci	ription	Mo	odel No.	Instrument ID	NIST Cert. No.
Input Device	Fluke Calib	rator	725		8218055	1000195484
Output Device	Local Displ	ay				
			Approvals	3		
Hours	Date Work Perfo	rmed	Accepted By		Date Signed	
1.0	10/14	/2010				
PASS 3 Signature	ገወጥገላና		Customer Signa	ture		
JUJIJY JIL	74(LOJ1					



ABC Coke	Plant				Contractor .O. No.	
Application/Service					Tag No.	
Tar Tank Co	ntrol Box				TTCB-CV	
Manufactuer		Model No.			Serial No.	
Fisher		n/a	<u> </u>		n/a	
Instrument			Х			
Туре	Transmitter	Indicator	Controller	Recorder	Gauge	Thermometer
		Plus	Minus	☑ % of Span		
Accuracy		2.0	2.0	☐ % of Reading	3	
		Input Sigr	nal Range	and Units		
Lo Range Value	Hi Range Value			Characteristic	Special	
4	20	MA	DC	Linear	Control Valv	'e
			nal Range	and Units		
Lo Range Value	Hi Range Value			Characteristic	Special	
0	100		cent	Linear		
	l	nstrument		n as Found	Y	
Calibration		Eveneted	Actual	0/ Error Ao	A atrical Criticist	
Calibration Point	Actual Input	Expected Output	Output as Found	% Error As Found	Actual Output as Left	% Error As Left
0%	4	0	0	0.000	0	0.000
25%	8	25	25	0.000	25	0.000
50%	12	50	50	0.000	50	0.000
75%	16	75	75	0.000	75	0.000
100%	20	100	100	0.000	100	0.000
		(Comments	8		
		Calibratio	n Equipm	ent Used		
Calibrator	Descr	·		del No.	Instrument ID	NIST Cert. No.
Input Device	Fluke Calib	rator	725		On File	On File
Output Device	Local Displ	ay				
			Approvals			
Hours	Date Work Perfo		Accepted By		Date Signed	
1.0 PASS 3 Signature	10/14	/2010	Customer Signat	ture		
JOHN HO	ORTOM		oustomer signar	luie		
JUJIJY JIC	72(LUJY					



Customer Name	DI I				Contract/P.O. No.	
ABC Coke					TN-	
073 #8 #000 Versette (NA 125 220 NA 022				Tag No.		
Tar Tank Co	ontrol Box	IModel No.			TTCB-IP Serial No.	
Brandt		STD5131			M513000F-	16278
Instrument	X	CIBOIOI			1010100001	10270
Туре	Transmitter	Indicator	Controller	Recorder	Gauge	Thermometer
		Plus	Minus	✓ % of Span		
Accuracy		2.0	2.0	☐ % of Reading	9	
	D	Input Sigr	nal Range	and Units	T	
Lo Range Value	Hi Range Value		D.0	Characteristic	Special	
4	20	I	VDC	Linear		
			nal Range	e and Units	To	
Lo Range Value	Hi Range Value		NO.	Characteristic	Special	
3	15		SIG	Linear	l	
		nstrument		n as Found		
Calibration		Expected	Actual Output as	% Error As	Actual Output	
Point	Actual Input	Output	Found	Found	as Left	% Error As Left
0%	4	3	1.996	-8.367	1.996	-8.367
25%	8	6	3.856	-17.867	3.856	-17.867
50%	12	9	7.870	-9.417	7.870	-9.417
75%	16	12	9.990	-16.750	9.990	-16.750
100%	20	15	13.990	-8.417	14.980	-0.167
		(Comments	S		
IP BAD N	EED TO RE	PLACE				
		Calibratio	n Equipm	ent Used		
Calibrator	Descr	intion	Mo	odel No.	Instrument ID	NIST Cert. No.
Input Device	Fluke Calib		725	del No.	On File	On File
Output Device			725			
Output Device	riuke Calib				On File	On File
Hours	Date Work Perfo		Approvals Accepted By		Date Signed	
1.0		/2010	need to the second of the			
PASS 3 Signature			Customer Signat	ture		



Customer Name					Contract/P.O. No.	
ABC Coke Plant						
Application/Service					Tag No.	
Tar Tank Co	ntrol Box				TTCB-MAG	
Manufactuer		Model No.			Serial No.	
Magnehelic		2000-oc	·		R98085RM	15
Instrument	х					
Туре	Transmitter	Indicator	Controller	Recorder	Gauge	Thermometer
		Plus	Minus	☑ % of Span		
Accuracy		2.0	2.0	☐ % of Reading	9	
		Input Sigr	nal Range	and Units		
Lo Range Value	Hi Range Value	Units		Characteristic	Special	
0.10	0.50	PS	SIG	Linear		
			nal Range	e and Units		
Lo Range Value	Hi Range Value			Characteristic	Special	
0.10	0.50		SIG	Linear		
		nstrument		n as Found		
Calibration Point	Actual Input	Expected Output	Actual Output as Found	% Error As Found	Actual Output as Left	% Error As Left
0%	0.10	0.10	0.10	0.000	0.10	0.000
25%	0.20	0.20	0.15	-12.500	0.15	-12.500
50%	0.20	0.20	0.15	-37.500	0.15	-37.500
75%	0.40	0.40	0.15	-62.500	0.15	-62.500
100%	0.50	0.50	0.15	-87.500	0.15	-87.500
10070	0.00		Comments		0.10	-07.300
				<u> </u>		
BAD NEE	D TO REI	PLACE				
2112 1 (22)	D 10 101	LITOL				
						-
		Calibratio	n Equipm	ent Used		
Calibrator	Descr			odel No.	Instrument ID	NIST Cert. No.
Input Device	Fluke Calib	rator	725		On File	On File
Output Device	Local					
			Approvals			
Hours	Date Work Perfo		Accepted By		Date Signed	
1.0 PASS 3 Signature	10/14	/2010	Customer Signat	huro		
_	ገወተገለና		Customer Signat	ture		
JOHN HO	DACTON.					



Customer Name					Contract/P.O. No.	
ABC Coke						
Application/Service					Tag No.	
Tar Tank Co	introl Box	Model No.			TTCB-PT Serial No.	
Ashcroft		1XLDP			81000122	
		IXLDF		- 1	01000122	
Instrument	X					
Туре	Transmitter	Indicator	Controller	Recorder	Gauge	Thermometer
		Plus	Minus	☑ % of Span		
Accuracy		2.0	2.0	☐ % of Reading	g	
		Input Sigr	nal Range	and Units		
Lo Range Value	Hi Range Value	Units		Characteristic	Special	
-2	14	INF	120	Linear		
			nal Range	e and Units		
Lo Range Value	Hi Range Value	Units		Characteristic	Special	
-2	14	INF	120	Linear		
		nstrument	: Condition	n as Found		
			Actual			
Calibration	A studilmout	Expected	Output as	% Error As	Actual Output	0/ E A- L-ft
Point	Actual Input	Output	Found	Found	as Left	% Error As Left
0%	-2	4				
25%	2	8				
50%	6	12				
75%	10	16				
100%	14	20				_
		(Comments	8		-
Will not calib	rate told Ch	narlie needs	to be repla	aced		
Reading 4 "	high					
		Calibratio	n Equipm	ent Used		
Calibrator	Descr	ription	Mo	del No.	Instrument ID	NIST Cert. No.
Input Device	HAND PUN	/IP	DWYER			<u></u>
Output Device Fluke Calibrator			725		On File	On File
			Approvals		·	3 11 30
Hours	Date Work Perfo		Accepted By		Date Signed	
1.0	10/14	/2010				
PASS 3 Signature	200000		Customer Signa	ture		
JOHNHO	JKTON					